

Title (en)
Quantitative powder feeder

Title (de)
Quantitative Pulverzuführung

Title (fr)
Alimentation quantitative de poudre

Publication
EP 0788987 A2 19970813 (EN)

Application
EP 96306399 A 19960904

Priority
JP 23004995 A 19950907

Abstract (en)
A rotor 22 accommodated in a casing 26 has a circumferential surface sliding on the internal surface of the casing 26 in airtight condition. The casing 26 is provided with a powder feed part 27 positioned above the rotor and is provided with a powder drop part 30 positioned under the rotor. At least one quantity-measuring recessed part is formed in the slide surface of the rotor. In accordance with the rotation of the rotor, the quantity-measuring recessed part comes to communicate with the powder feed part, so that powder is fed from the powder feed part into the quantity-measuring recessed part. When the rotation is advanced, the quantity-measuring recessed part comes to communicate with the powder drop part, so that the powder drops from the quantity-measuring recessed part through the powder drop part into a high-pressure part 19 arranged thereunder. These members construct a quantitative powder feeder which, even when a pressure difference exists between the supply side and the supplied side, can effectively prevent the gas flow and pressure leak therebetween and can minimize the amount of carrier gas used for feeding powder.
<IMAGE>

IPC 1-7
B65G 53/46

IPC 8 full level
B01J 8/00 (2006.01); **B01J 8/24** (2006.01); **B65G 53/46** (2006.01); **B65G 65/48** (2006.01)

CPC (source: EP KR US)
B01J 8/002 (2013.01 - EP KR US); **B01J 8/0035** (2013.01 - EP KR US); **B01J 8/24** (2013.01 - EP KR US); **B65G 53/4633** (2013.01 - EP KR US)

Cited by
DE19855274A1; CN106005502A; DE102016114564A1

Designated contracting state (EPC)
DE FR GB IT NL

DOCDB simple family (publication)
EP 0788987 A2 19970813; **EP 0788987 A3 19980715**; **EP 0788987 B1 20021127**; CA 2184978 A1 19970308; CA 2184978 C 20010828; CN 1065207 C 20010502; CN 1152533 A 19970625; DE 69625036 D1 20030109; DE 69625036 T2 20030508; JP 3584092 B2 20041104; JP H0977254 A 19970325; KR 100194391 B1 19990615; KR 970014825 A 19970428; SG 42439 A1 19970815; TW 317554 B 19971011; US 5738249 A 19980414

DOCDB simple family (application)
EP 96306399 A 19960904; CA 2184978 A 19960906; CN 96111381 A 19960906; DE 69625036 T 19960904; JP 23004995 A 19950907; KR 19960038791 A 19960907; SG 1996010593 A 19960906; TW 85109473 A 19960806; US 69425896 A 19960808